

ABSTRACT

[0098] An amphibious vehicle wheel suspension includes upper and lower linkages, road suspension means, and a retraction means for moving the wheel between a protracted position for road use, and a retracted position for marine use. Suspension means can be operatively disconnected from the wheel and/or the linkages to allow for retraction and protraction. Retraction means may also be disconnected for road use. The disconnection mechanisms may comprise a ball and track mechanism, interlocking splines, interlocking teeth, or a pneumatic clutch. Also provided is a combination of splines for a suspension lever arm, and a pneumatic clutch for retraction arm. Suspension means may be connected to upper linkage. Coil, torsion bar, or hydropneumatic springs may be used.